

GenCore version 5.1.1.6  
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OM protein - protein search, using sw model

Run on: June 8, 2004, 12:27:02 ; Search time 22 Seconds  
(without alignments)  
16.426 Million cell updates/sec

Title: US-09-765-086-207

Perfect score: 30

Sequence: 1 SMSIARL 7

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA:\*

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5: /cgn2\_6/ptodata/2/iaa/PTUS\_COMB.pep.\*

6: /cgn2\_6/ptodata/2/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	30	100.0	7	3	US-09-042-107-21
3	30	100.0	7	4	US-09-722-250D-21
4	28	93.3	340	4	US-09-328-352-7764
5	25	83.3	117	4	US-09-732-210-1362
6	25	83.3	118	4	US-09-711-164-386
7	25	83.3	118	4	US-09-711-164-418
8	25	83.3	126	4	US-09-732-210-1163
9	25	83.3	298	4	US-09-328-352-7474
10	25	83.3	329	4	US-09-252-991A-23639
11	25	83.3	366	4	US-09-252-991A-29569
12	25	83.3	773	4	US-09-543-681A-7688
13	25	83.3	923	4	US-03-717-926-2
14	24	80.0	143	4	US-09-252-991A-25596
15	24	80.0	156	4	US-09-732-210-1624
16	24	80.0	205	4	US-09-252-991A-20776
17	24	80.0	207	4	US-08-811-519-14
18	24	80.0	210	4	US-09-171-461-34
19	24	80.0	268	4	US-09-172-952-21
20	24	80.0	288	4	US-09-252-991A-23528
21	24	80.0	833	4	US-09-543-681A-4884
22	24	80.0	1033	4	US-09-328-352-5138
23	23	76.7	75	4	US-09-252-991A-28889
24	23	76.7	77	4	US-09-540-236-1989
25	23	76.7	96	4	US-09-621-976-5169
26	23	76.7	118	3	US-09-045-764A-5
27	23	76.7	137	4	US-09-252-991A-22620

28	23	76.7	153	4	US-09-252-991A-26200	Sequence 26200, A
29	23	76.7	158	4	US-09-252-991A-24570	Sequence 24570, A
30	23	76.7	169	4	US-09-252-991A-18389	Sequence 18389, A
31	23	76.7	196	4	US-09-252-991A-22525	Sequence 22525, A
32	23	76.7	207	4	US-09-252-991A-32255	Sequence 32255, A
33	23	76.7	216	4	US-09-252-991A-23048	Sequence 23048, A
34	23	76.7	253	4	US-09-540-236-3093	Sequence 3093, Ap
35	23	76.7	282	4	US-09-252-991A-25948	Sequence 25948, A
36	23	76.7	285	4	US-09-489-039A-9081	Sequence 9081, Ap
37	23	76.7	372	4	US-09-252-991A-28586	Sequence 28586, A
38	23	76.7	385	4	US-09-252-991A-18352	Sequence 18352, A
39	23	76.7	439	3	US-09-413-814-13	Sequence 13, App-
40	23	76.7	456	4	US-09-252-991A-23892	Sequence 23892, A
41	23	76.7	472	4	US-09-252-991A-31378	Sequence 31378, A
42	23	76.7	476	2	US-08-850-880-2	Sequence 2, Appli
43	23	76.7	476	2	US-08-944-916-2	Sequence 2, Appli
44	23	76.7	476	2	US-08-814-877-2	Sequence 2, Appli
45	23	76.7	476	4	US-09-632-021-2	Sequence 2, Appli

#### ALIGNMENTS

RESULT 1

US-09-258-754-21

; Sequence 21, Application US/09258754

; Patent No. 6174587

; GENERAL INFORMATION:

; APPLICANT: Ruoslahti, Erkki

; APPLICANT: Rajotte, Daniel

; TITLE OF INVENTION: Methods of Identifying Lung Homing Molecules Using

; TITLE OF INVENTION: Membrane Dipeptidase

; FILE REFERENCE: P-LJ 3443

; CURRENT APPLICATION NUMBER: US/09/258,754

; CURRENT FILING DATE: 1999-02-26

; EARLIER FILING DATE: 1998-03-13

; NUMBER OF SEQ ID NOS: 452

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 21

; LENGTH: 7

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: Synthetic

US-09-258-754-21

Query Match 100.0%; Score 30; DB 3; Length 7;

Best Local Similarity 100.0%; Pred. No. 3e+05;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMSIARL 7

Db 1 SMSIARL 7

#### RESULT 2

US-09-042-107-21

; Sequence 21, Application US/09042-07

; Patent No. 6232287

; GENERAL INFORMATION:

; APPLICANT: Ruoslahti, Erkki

; APPLICANT: Pasqualini, Renata

; TITLE OF INVENTION: Molecules that Home to Various Selected Organs or

; TITLE OF INVENTION: Tissues

; FILE REFERENCE: P-LJ 2892

; CURRENT APPLICATION NUMBER: US/09/042,107

; CURRENT FILING DATE: 1998-03-13

; NUMBER OF SEQ ID NOS: 436

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 21

; LENGTH: 7

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; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
US-09-042-107-21

Query Match 100.0%; Score 30; DB 3; Length 7;  
Best Local Similarity 100.0%; Pred. No. 3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMSIARL 7  
Db 1 SMSIARL 7

RESULT 3  
US-09-722-250D-21  
; Sequence 21, Application US/09722250D  
; Patent No. 6610651  
; GENERAL INFORMATION:  
; APPLICANT: Ruoslahti, Erkki  
; APPLICANT: Pasqualini, Renata  
; TITLE OF INVENTION: Molecules that Home to Various Selected Organs or  
; TITLE OF INVENTION: Tissues  
; FILE REFERENCE: P-LJ 4514  
; CURRENT FILING DATE: 2000-11-22  
; PRIOR APPLICATION NUMBER: US/09/722,250D  
; PRIOR FILING DATE: US 09/042,107  
; PRIOR FILING DATE: 1998-03-13  
; NUMBER OF SEQ ID NOS: 437  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 21  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
US-09-722-250D-21

Query Match 100.0%; Score 30; DB 4; Length 7;  
Best Local Similarity 100.0%; Pred. No. 3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMSIARL 7  
Db 1 SMSIARL 7

RESULT 4  
US-09-328-352-7764  
; Sequence 7764, Application US/09328352  
; Patent No. 6562958  
; GENERAL INFORMATION:  
; APPLICANT: Gary L. Breton et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER  
; TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: GTC99-032A  
; CURRENT APPLICATION NUMBER: US/09/328,352  
; CURRENT FILING DATE: 1999-06-04  
; NUMBER OF SEQ ID NOS: 8252  
; SEQ ID NO 7764  
; LENGTH: 340  
; TYPE: PRT  
; ORGANISM: Acinetobacter baumannii  
US-09-328-352-7764

Query Match 93.3%; Score 28; DB 4; Length 340;  
Best Local Similarity 85.7%; Pred. No. 27;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMSIARL 7  
Db 4 SMSIARL 10

RESULT 5  
US-09-732-210-1362  
; Sequence 1362, Application US/09732210  
; Patent No. 6573361  
; GENERAL INFORMATION:  
; APPLICANT: Bunkers, Greg J.  
; APPLICANT: Liang, Jinhong  
; APPLICANT: Mittanck, Cindy A.  
; APPLICANT: Seale, Jeffrey W.  
; APPLICANT: Wu, Yornie S.  
; TITLE OF INVENTION: Anti-fungal Proteins and Methods for Their Use  
; FILE REFERENCE: 38-21(15036)B  
; CURRENT APPLICATION NUMBER: US/09/732,210  
; CURRENT FILING DATE: 2000-12-07  
; PRIOR APPLICATION NUMBER: US 60/169,513  
; PRIOR FILING DATE: 1999-12-07  
; PRIOR APPLICATION NUMBER: US 60/169,340  
; PRIOR FILING DATE: 1999-12-07  
; NUMBER OF SEQ ID NOS: 1753  
; SEQ ID NO 1362  
; LENGTH: 117  
; TYPE: PRT  
; ORGANISM: Escherichia coli  
US-09-732-210-1362

Query Match 83.3%; Score 25; DB 4; Length 117;  
Best Local Similarity 85.7%; Pred. No. 46;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 SMSIARL 7  
Db 73 SMSIARL 79

RESULT 6  
US-09-711-164-386  
; Sequence 386, Application US/09711164  
; Patent No. 6589738  
; GENERAL INFORMATION:  
; APPLICANT: Forsyth, R. Allyn  
; APPLICANT: Orlsen, Kari  
; APPLICANT: Zyskind, Judith  
; TITLE OF INVENTION: GENES ESSENTIAL FOR MICROBIAL PROLIFERATION AND ANTISENSE THEREOF  
; FILE REFERENCE: ELITRA 008A  
; CURRENT APPLICATION NUMBER: US/09/711,164  
; CURRENT FILING DATE: 2000-11-09  
; PRIOR APPLICATION NUMBER: US 60/164415  
; PRIOR FILING DATE: 1999-11-9  
; NUMBER OF SEQ ID NOS: 469  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 386  
; LENGTH: 118  
; TYPE: PRT  
; ORGANISM: Escherichia coli  
US-09-711-164-386

Query Match 83.3%; Score 25; DB 4; Length 118;  
Best Local Similarity 85.7%; Pred. No. 46;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 SMSIARL 7  
Db 74 SMSIARL 80

RESULT 7  
US-09-711-164-418  
; Sequence 418, Application US/09711164  
; Patent No. 6589738  
; GENERAL INFORMATION:  
; APPLICANT: Forsyth, R. Allyn



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RESULT 12
US-09-543-681A-7688
; Sequence 7688, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
; APPLICANT: GARY BRETON
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.1002-001
; CURRENT APPLICATION NUMBER: US/09/543.681A
; CURRENT FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 60/128,706
; PRIOR FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 7688
; LENGTH: 773
; TYPE: PRT
; ORGANISM: Proteus mirabilis
US-09-543-681A-7688

Query Match      83.3%; Score 25; DB 4; Length 773;
Best Local Similarity 71.4%; Pred. No. 3.9e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 SMSIARL 7
Db      118 SMDVRL 124

RESULT 13
US-09-717-926-2
; Sequence 2, Application US/09717926
; Patent No. 6569657
; GENERAL INFORMATION:
; APPLICANT: Meyers, Rachel
; APPLICANT: Cook, William J.
; TITLE OF INVENTION: 32140, A No. 6569657el Human Aldehyde
; TITLE OF INVENTION: Dehydrogenase
; FILE REFERENCE: 35800/205243
; CURRENT APPLICATION NUMBER: US/09/717.926
; CURRENT FILING DATE: 2000-11-21
; PRIOR APPLICATION NUMBER: US 60/214,707
; PRIOR FILING DATE: 2000-06-27
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 923
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-717-926-2

Query Match      83.3%; Score 25; DB 4; Length 923;
Best Local Similarity 71.4%; Pred. No. 4.7e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 SMSIARL 7
Db      375 SMDVRL 381

RESULT 14
US-09-252-991A-25596
; Sequence 25596, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252.991A
; CURRENT FILING DATE: 1999-02-18
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; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 25596
; LENGTH: 143
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-25596

Query Match      80.0%; Score 24; DB 4; Length 143;
Best Local Similarity 83.3%; Pred. No. 1e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      2 SMSIARL 7
Db      53 MSLARL 58

RESULT 15
US-09-732-210-1624
; Sequence 1624, Application US/09732210
; Patent No. 6573361
; GENERAL INFORMATION:
; APPLICANT: Bunkers, Greg J.
; APPLICANT: Liang, Jihong
; APPLICANT: Mittanck, Cindy A.
; APPLICANT: Seale, Jeffrey W.
; APPLICANT: Wu, Yennie S.
; TITLE OF INVENTION: Anti-fungal Proteins and Methods for Their Use
; FILE REFERENCE: 38-21(15036)B
; CURRENT APPLICATION NUMBER: US/09/732.210
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 60/169,513
; PRIOR FILING DATE: 1999-12-07
; PRIOR APPLICATION NUMBER: US 60/169,340
; PRIOR FILING DATE: 1999-12-07
; NUMBER OF SEQ ID NOS: 1753
; SEQ ID NO 1624
; LENGTH: 156
; TYPE: PRT
; ORGANISM: Anacystis nidulans
US-09-732-210-1624

Query Match      80.0%; Score 24; DB 4; Length 156;
Best Local Similarity 71.4%; Pred. No. 1.1e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 SMSIARL 7
Db      24 SMDVRL 30

Search completed: June 8, 2004, 13:40:43
Job time : 23 secs
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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: June 8, 2004, 13:44:03 ; Search time 42 Seconds  
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46,890 Million cell updates/sec

Title: US-09-765-086-207  
Perfect score: 30  
Sequence: 1 SMSIARL 7

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18: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	30	100.0	7	9	US-09-765-086-207
2	29	96.7	236	9	US-09-738-636-4337
3	27	90.0	70	12	US-10-424-599-165406
4	27	90.0	289	9	US-09-738-636-5753
5	27	90.0	422	12	US-10-282-122A-61437
6	27	90.0	534	12	US-10-282-122A-49880
7	27	90.0	536	12	US-10-282-122A-45804
8	26	86.7	183	15	US-10-231-265-286
9	26	86.7	218	12	US-10-424-599-182963
10	26	86.7	284	13	US-10-067-989-2
11	26	86.7	359	12	US-10-425-114-39534
12	26	86.7	382	9	US-09-738-636-5949
13	26	86.7	521	12	US-10-425-114-63656
14	26	86.7	589	14	US-10-311-626-4
15	26	86.7	697	14	US-10-101-464A-940

16 86.7 743 15 US-10-104-047-2340 Sequence 2340, Ap  
17 86.7 748 12 US-09-939-853A-57 Sequence 57, Appl  
18 86.7 748 16 US-10-408-765A-2697 Sequence 2697, Ap  
19 86.7 751 12 US-09-939-853A-58 Sequence 58, Appl  
20 86.7 831 12 US-10-282-122A-42843 Sequence 42843, A  
21 86.7 831 15 US-10-369-493-23487 Sequence 23487, A  
22 83.3 55 9 US-09-864-761-34732 Sequence 34732, A  
23 83.3 118 9 US-09-741-669-463 Sequence 463, App  
24 83.3 118 9 US-09-815-242-10337 Sequence 10337, A  
25 83.3 118 9 US-09-815-242-10337 Sequence 10337, A  
26 83.3 118 12 US-10-282-122A-42770 Sequence 42770, A  
27 83.3 118 12 US-10-282-122A-56132 Sequence 56132, A  
28 83.3 118 12 US-10-282-122A-73558 Sequence 73558, A  
29 83.3 118 12 US-10-282-122A-75733 Sequence 75733, A  
30 83.3 118 14 US-10-287-274-386 Sequence 386, App  
31 83.3 118 14 US-10-287-274-418 Sequence 418, App  
32 83.3 121 12 US-10-129-806-2 Sequence 2, Appl  
33 83.3 149 12 US-10-424-599-183070 Sequence 183070, A  
34 83.3 168 12 US-10-424-599-203721 Sequence 203721, A  
35 83.3 338 12 US-10-282-122A-53731 Sequence 53731, A  
36 83.3 381 9 US-09-738-636-6696 Sequence 6696, Ap  
37 83.3 440 12 US-10-425-114-68064 Sequence 68064, A  
38 83.3 474 12 US-10-425-114-44141 Sequence 44141, A  
39 83.3 517 12 US-10-425-114-56919 Sequence 56919, A  
40 83.3 520 12 US-10-425-114-48701 Sequence 48701, A  
41 83.3 521 10 US-09-976-782-8 Sequence 8, Appl  
42 83.3 521 10 US-09-976-782-10 Sequence 10, Appl  
43 83.3 523 10 US-09-976-782-6 Sequence 6, Appl  
44 83.3 542 10 US-09-976-782-4 Sequence 4, Appl  
45 83.3 582 12 US-10-424-599-251471 Sequence 251471, A

## ALIGNMENTS

RESULT 1  
US-09-765-086-207 ; Sequence 207, Application US/09765086  
Patent No. US2001004698A1  
GENERAL INFORMATION:  
APPLICANT: Ruoslahti, Erkki  
APPLICANT: Pasqualini, Renata  
APPLICANT: Wadih, Arap  
APPLICANT: Bredesen, Dale E.  
APPLICANT: Ellerby, H. Michael  
TITLE OF INVENTION: Chimeric Prostate-Homing Peptides With  
TITLE OF INVENTION: Pro-Apoptotic Activity  
FILE REFERENCE: P-1J 3844  
CURRENT APPLICATION NUMBER: US/09/765.086  
CURRENT FILING DATE: 2001-01-17  
PRIOR APPLICATION NUMBER: US 09/489,582  
PRIOR FILING DATE: 2000-01-21  
NUMBER OF SEQ ID NOS: 235  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 207  
LENGTH: 7  
TYPE: P3T  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: synthetic peptide  
US-09-765-086-207

Query Match 100.0%; Score 30; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 1e+06;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMSIARL 7  
|||||  
Db 1 SMSIARL 7

RESULT 2  
US-09-738-636-4337

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; Sequence 4337, Application US/09738626
; Publication No. US20020197605A1
; GENERAL INFORMATION:
; APPLICANT: NAKAGAWA, SATOSHI
; APPLICANT: MIZOUCHI, HIROSHI
; APPLICANT: ANDO, SEIKO
; APPLICANT: HAYASHI, MIKIRO
; APPLICANT: OCHIAI, KEIKO
; APPLICANT: YOKOI, HARUHIKO
; APPLICANT: TATEISHI, NAOKO
; APPLICANT: SENO, AKIHIRO
; APPLICANT: IKEDA, MASATO
; APPLICANT: OZAKI, AKIO
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-125
; CURRENT APPLICATION NUMBER: US/09/738,626
; PRIOR FILING DATE: 2000-12-18
; PRIOR APPLICATION NUMBER: JP 99/377484
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: JP 00/159162
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: JP 00/280988
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 7059
; SOFTWARE: PatentIn ver. 3.0
; SEQ ID NO 4337
; LENGTH: 236
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-09-738-626-4337

```

```

Query Match          96.7%; Score 29; DB 9; Length 236;
Best Local Similarity 85.7%; Pred. No. 43;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 SMSIARL 7
DB 2 SMSVARL 8

```

## RESULT 3

```

US-10-424-599-165406
; Sequence 165406, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 165406
; LENGTH: 70
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_120378C.1.pep
US-10-424-599-165406

```

```

Query Match          90.0%; Score 27; DB 12; Length 70;
Best Local Similarity 71.4%; Pred. No. 35;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 SMSIARL 7
DB 40 SMSVARL 46

```

## RESULT 4

```

US-09-738-625-5753
; Sequence 5753, Application US/09738626
; Publication No. US20020197605A1
; GENERAL INFORMATION:
; APPLICANT: NAKAGAWA, SATOSHI
; APPLICANT: MIZOUCHI, HIROSHI
; APPLICANT: ANDO, SEIKO
; APPLICANT: HAYASHI, MIKIRO
; APPLICANT: OCHIAI, KEIKO
; APPLICANT: YOKOI, HARUHIKO
; APPLICANT: TATEISHI, NAOKO
; APPLICANT: SENO, AKIHIRO
; APPLICANT: IKEDA, MASATO
; APPLICANT: OZAKI, AKIO
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-125
; CURRENT APPLICATION NUMBER: US/09/738,626
; CURRENT FILING DATE: 2000-12-18
; PRIOR APPLICATION NUMBER: JP 99/377484
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: JP 00/159162
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: JP 00/280988
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 7059
; SOFTWARE: PatentIn ver. 3.0
; SEQ ID NO 5753
; LENGTH: 289
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-09-738-625-5753

```

```

Query Match          90.0%; Score 27; DB 9; Length 289;
Best Local Similarity 85.7%; Pred. No. 1.7e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 SMSIARL 7
DB 142 SMSIARV 148

```

## RESULT 5

```

US-10-282-122A-61437
; Sequence 61437, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578

```

```
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 61437
; LENGTH: 422
; TYPE: PRT
; ORGANISM: Legionella pneumophila
US-10-282-122A-61437

Query Match          90.0%; Score 27; DB 12; Length 422;
Best Local Similarity 85.7%; Pred. No. 2.5e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 SMSIARL 7
      ||:||||
Db      209 SMNIARL 215

RESULT 6
US-10-282-122A-49980
; Sequence 49980, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 49980
; LENGTH: 534
```

```
; TYPE: PRT
; ORGANISM: Burkholderia mallei
US-10-282-122A-49980

Query Match          90.0%; Score 27; DB 12; Length 534;
Best Local Similarity 85.7%; Pred. No. 3.2e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 SMSIARL 7
      ||:||||
Db      24 SMTIARL 30

RESULT 7
US-10-282-122A-45804
; Sequence 45804, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 45804
; LENGTH: 536
; TYPE: PRT
; ORGANISM: Bacillus anthracis
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (369)..(369)
; OTHER INFORMATION: X=any amino acid
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (371)..(371)
; OTHER INFORMATION: X=any amino acid
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (406)..(406)
; OTHER INFORMATION: X=any amino acid
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```
/
/
/ NAME/KEY: MISC FEATURE
/ LOCATION: (420)..(420)
/ OTHER INFORMATION: X-any amino acid
US-10-282-122A-45804

Query Match      90.0%; Score 27; DB 12; Length 536;
Best Local Similarity 85.7%; Pred. No. 3.2e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMSIARL 7
Db 498 SMSIARL 504

RESULT 8
US-10-291-265-286
; Sequence 286, Application US/10291265
; Publication No. US20030232054A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc.
; APPLICANT: Tagg et al
; TITLE OF INVENTION: No. US20030232054A1el Nucleic Acids and Polypeptides
; FILE REFERENCE: 21272-017 (785)
; CURRENT APPLICATION NUMBER: US/10/291,265
; CURRENT FILING DATE: 2000-01-25
; PRIOR FILING DATE: 2000-01-25
; PRIOR FILING DATE: 2000-01-25
; PRIOR FILING DATE: 2000-07-17
; PRIOR FILING DATE: 2000-07-17
; PRIOR FILING DATE: 2000-08-03
; PRIOR FILING DATE: 2000-08-03
; PRIOR FILING DATE: 2000-09-15
; NUMBER OF SEQ ID NOS: 944
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 286
; LENGTH: 183
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-291-265-286

Query Match      86.7%; Score 26; DB 15; Length 183;
Best Local Similarity 85.7%; Pred. No. 1.8e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 SMSIARL 7
Db 36 SMSIARL 42

RESULT 9
US-10-424-599-182963
; Sequence 182963, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 182963
; LENGTH: 218
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_136229C.1.pep
US-10-424-599-182963

Query Match      86.7%; Score 26; DB 12; Length 218;
Best Local Similarity 71.4%; Pred. No. 2.2e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMSIARL 7
Db 2 AMSVARL 8

RESULT 10
US-10-067-989-2
; Sequence 2, Application US/10067989
; Publication No. US20020144309A1
; GENERAL INFORMATION:
; APPLICANT: Dinkins, Randy
; APPLICANT: Reddy, M.S. Srinivasa
; APPLICANT: Collins, Glenn B.
; TITLE OF INVENTION: Transgenic plants expressing MinD or MinE and an efficient
; FILE REFERENCE: 028750-219
; CURRENT APPLICATION NUMBER: US/10/067,989
; CURRENT FILING DATE: 2002-05-24
; PRIOR FILING DATE: 2002-05-24
; PRIOR FILING DATE: 2001-02-09
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 284
; TYPE: PRT
; ORGANISM: Chlorella vulgaris
US-10-067-989-2

Query Match      86.7%; Score 26; DB 13; Length 284;
Best Local Similarity 100.0%; Pred. No. 2.5e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 MSIARL 7
Db 41 MSIARL 46

RESULT 11
US-10-425-114-39534
; Sequence 39534, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 39534
; LENGTH: 359
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: 700267313_FLI.pep
US-10-425-114-39534

Query Match      86.7%; Score 26; DB 12; Length 359;
Best Local Similarity 85.7%; Pred. No. 3.7e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMSIARL 7
Db 1 SMSIARL 7
```



Db 14 SVSIARL 20

## RESULT 12

US-09-738-626-5949  
; Sequence 5949, Application US/09738626  
; Publication No. US20020197603A1  
; GENERAL INFORMATION:  
; APPLICANT: MIZOGUCHI, HIROSHI  
; APPLICANT: ANDO, SEIKO  
; APPLICANT: HAYASHI, MIKIRO  
; APPLICANT: OCHIAI, KEIKO  
; APPLICANT: YOKOI, HARUHIKO  
; APPLICANT: TATEISHI, NAKO  
; APPLICANT: SENO, AKIHIRO  
; APPLICANT: IKEDA, MASATO  
; APPLICANT: OZAKI, AKIO  
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES  
; FILE REFERENCE: 249-125  
; CURRENT APPLICATION NUMBER: US/09/738.626  
; CURRENT FILING DATE: 2000-12-18  
; PRIOR APPLICATION NUMBER: JP 99/377484  
; PRIOR FILING DATE: 1999-12-16  
; PRIOR APPLICATION NUMBER: JP 00/159162  
; PRIOR FILING DATE: 2000-04-07  
; PRIOR APPLICATION NUMBER: JP 00/280988  
; PRIOR FILING DATE: 2000-08-03  
; NUMBER OF SEQ ID NOS: 7059  
; SOFTWARE: PatentIn ver. 3.0  
; SEQ ID NO 5949  
; LENGTH: 382  
; TYPE: PRT  
; ORGANISM: Corynebacterium glutamicum  
US-09-738-626-5949

Query Match 86.7%; Score 26; DB 9; Length 382;  
Best Local Similarity 71.4%; Pred. No. 4e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMSIARL 7

Db 192 AMSVARL 198

## RESULT 13

US-10-425-114-63658  
; Sequence 63658, Application US/10425114  
; Publication No. US20040034888A1  
; GENERAL INFORMATION:  
; APPLICANT: Liu, Jingdong  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Screen, Steven E  
; APPLICANT: Tabaska, Jack E  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53313)B  
; CURRENT APPLICATION NUMBER: US/10/425.114  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 73128  
; SEQ ID NO 63658  
; LENGTH: 521  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; OTHER INFORMATION: Clone ID: LIB3152-041-B8\_FLI.pep  
US-10-425-114-63658

Query Match 86.7%; Score 26; DB 12; Length 521;  
Best Local Similarity 85.7%; Pred. No. 5.6e+02;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMSIARL 7

Db 176 SVSIARL 182

## RESULT 14

US-10-311-626-4  
; Sequence 4, Application US/10311626  
; Publication No. US20030186379A1  
; GENERAL INFORMATION:  
; APPLICANT: INCYTE GENOMICS, INC.  
; APPLICANT: LAL, Preeti  
; APPLICANT: TANG, Y. Tom  
; APPLICANT: YUE, Kenly  
; APPLICANT: CHAWLA, Narinder K.  
; APPLICANT: BAUGHN, Mariah R.  
; APPLICANT: DAS Debopriya  
; APPLICANT: RAMKUMAR Jayalaxmi  
; APPLICANT: TRIBOULEY, Catherine M.  
; APPLICANT: LU, Dylung Aina M.  
; APPLICANT: HAFALIA, April  
; APPLICANT: GANDHI, Ameena R.  
; APPLICANT: LEE, Ernestine A.  
; APPLICANT: XU, Yuming  
; APPLICANT: BANDMAN, Olga  
; APPLICANT: ELLIOT, Vicki S.  
; APPLICANT: NGUYEN, Dannie B.  
; APPLICANT: BURRILL John D.  
; APPLICANT: MARCUS, Gregory A.  
; APPLICANT: ZINGLER, Kurt A.  
; APPLICANT: LU, Yan  
; APPLICANT: YAO Monique G.  
; APPLICANT: GURURAJAN, Rajagopal  
; APPLICANT: DING, Li  
; APPLICANT: WARREN, Bridget A.  
; APPLICANT: THANGAVELU, Kavitha  
; APPLICANT: LEE, Sally  
; TITLE OF INVENTION: SECRETION AND TRAFFICKING MOLECULES  
; FILE REFERENCE: P2-0801 PCT  
; CURRENT APPLICATION NUMBER: US/10/311.626  
; CURRENT FILING DATE: 2002-12-17  
; PRIOR APPLICATION NUMBER: 60/215,465; 60/239,384; 60/253,639  
; PRIOR FILING DATE: 2000-06-29; 2000-10-10; 2000-11-28  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PERL Program  
; SEQ ID NO 4  
; LENGTH: 589  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20030186379A1 4291779CD1  
US-10-311-626-4

Query Match 86.7%; Score 26; DB 14; Length 589;  
Best Local Similarity 71.4%; Pred. No. 6.4e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMSIARL 7

Db 537 SMSIARI 543

## RESULT 15

US-10-101-464A-940  
; Sequence 940, Application US/10101464A  
; Publication No. US20030046728A1  
; GENERAL INFORMATION:  
; APPLICANT: Strabala, Timothy  
; APPLICANT: Nieuwenhuizen, Nicolaas  
; APPLICANT: Higgins, Colleen M.  
; TITLE OF INVENTION: Compositions Isolated from Plant Cells

```

; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020c2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 940
; LENGTH: 697
; TYPE: PRT
; ORGANISM: Eucalyptus grandis
US-10-101-464A-940

```

```

Query Match      86.7%; Score 26; DB 14; Length 697;
Best Local Similarity 71.4%; Pred. No. 7.6e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy      1 SMSIARL 7
      |:|:|
Db      92 SLSVARL 98

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Search completed: June 8, 2004, 14:00:29
Job time : 42 secs

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